



Australian Government

Department of Education, Employment and Workplace Relations

RIIUMM302A Install sets

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the installation of sets in the metalliferous mining industry. It includes planning and preparing for operations, installing sets, and conducting housekeeping activities. Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Application of the Unit

This unit is appropriate for those working in an operational role at worksites within:

- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare for operations	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Plan and prepare work 1.3. Receive, interpret and clarify shift changeover details 1.4. Select appropriate personal protective equipment 1.5. Select appropriate type of equipment , safety equipment and ground control materials according to job type, work plan and site conditions 1.6. Conduct equipment pre-start checks to ensure equipment is ready for operation 1.7. Identify, manage and/or report potential risks and hazards according to work plan 1.8. Inspect and assess site conditions to determine if scaling is required and take action 1.9. Inspect and assess appropriateness of ground control mechanism to ensure safety of site 1.10. Use approved dust suppression and extraction equipment and/or methods
2. Install sets	2.1. Install footings according to ground control design 2.2. Assemble sets utilising appropriate materials suiting ground conditions according to ground control design 2.3. Erect and secure sets according to spacing requirements 2.4. Install packing in voids to recommended tolerances 2.5. Cut and fit supports between sets
3. Conduct housekeeping activities	3.1. Complete all required documentation clearly, concisely and on time 3.2. Clean equipment to maintain condition of equipment and ensure safe and efficient operations 3.3. Pass on end of shift information to oncoming shift

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following, as required to install sets:

- apply legislative, organisation and site requirements and procedures for installing sets
- cut and fit timbers
- cut and fix mesh
- identify hazards
- monitor operations
- organise work tasks
- report defects
- perform troubleshooting
- use hand and power tools

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following, as required to install sets:

- drilling procedures
- geological and technical data (basic)
- ground control characteristics and applications
- hazardous substances (handling and transport)
- manufacturer's specifications
- mining legislation
- operational procedures and checks
- footing installation techniques
- set assembly, erection and securing
- void packing techniques
- working at heights

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for installing sets • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of set installation • working with others to undertake and complete the installation of sets that meets all of the required outcomes • consistent timely completion of set installation that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	• This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment to sensitively accommodate

	cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues. • Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistent achievement of required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete the installation of sets
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	• legislative, organisational and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Equipment may include:	• power tools and hand tools • drilling equipment • lifting and handling equipment • lighting • support vehicles • recommended/required PPE
Dust suppression and ventilation equipment and/or methods may include:	• mobile/fixed sprays • screens (vent doors, vent blinds) • use of water trucks • ventilation bags operational • watering down site • fans
Footings may include:	• concrete • steel • timber • bed rock
Sets may include:	• concrete • multi-plate arch • steel • timber
Site conditions may include:	• accessibility • amount of scale • ground conditions (e.g. dry, wet) • ground stability (e.g. broken, blocky, flaky, stable, compacted) • location of water table

	• slope of working surface • ventilation characteristics (e.g. fumes, dust) • visibility
Legislation may include Acts and regulation dealing with:	• mining safety and health • mine inspection • OHS • explosives

Unit Sector(s)

Metalliferous Mining (Underground)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.